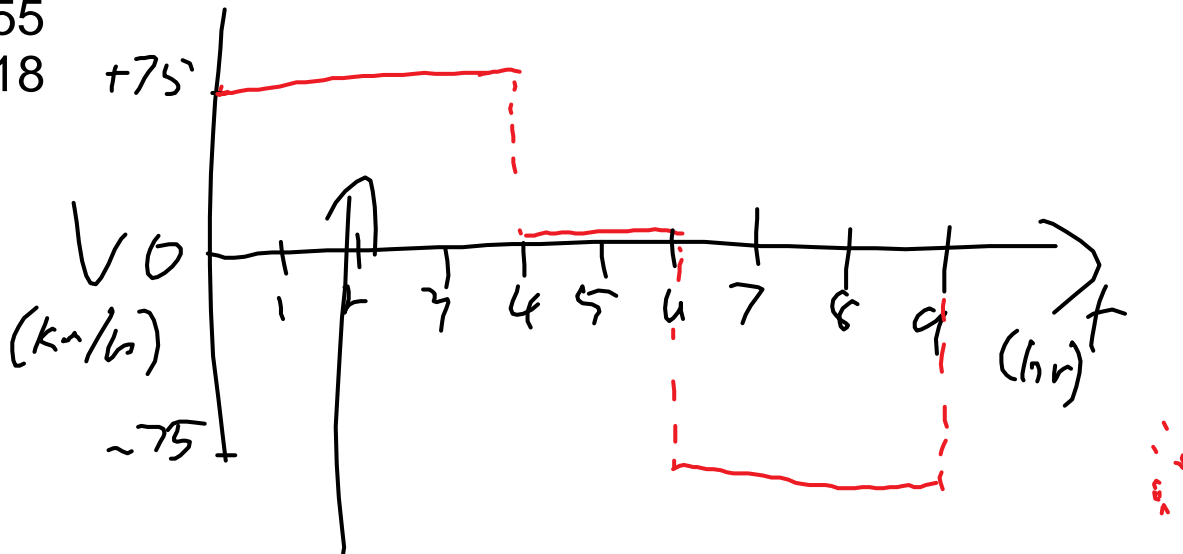


Go over homework  
Review ch 2 and 3  
next class, acceleration

p55  
q18



$$\text{Area} = L \times w = 75 \text{ km/h} \times 4 \text{ h}$$

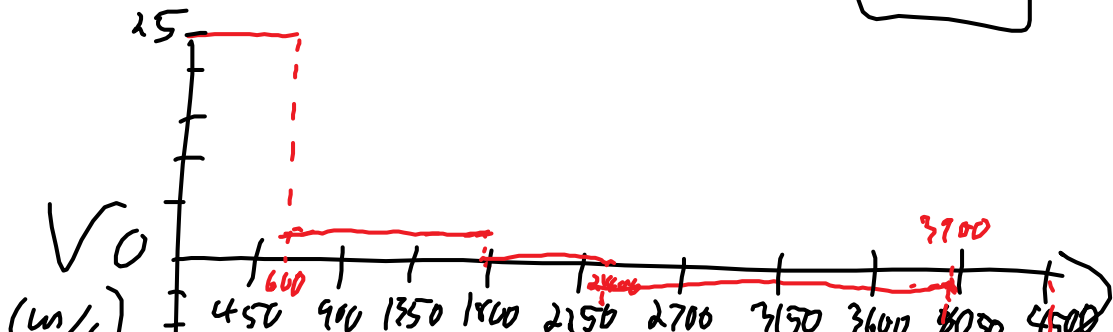
$$d_1 = 300 \text{ km}$$

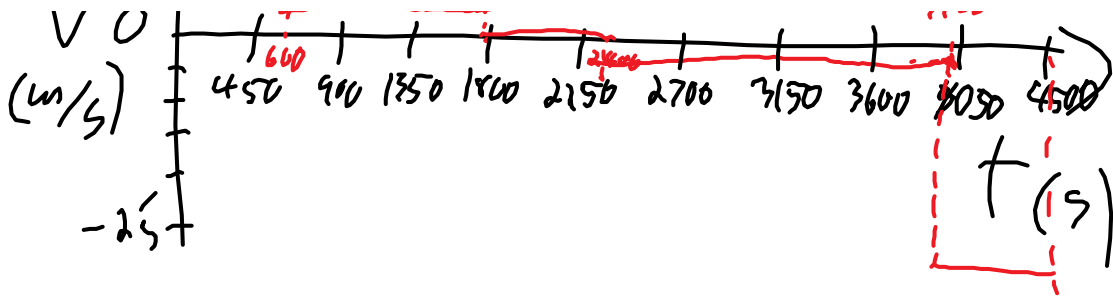
$$d_2 = 0$$

$$d_3 = -75 \text{ km/h} \times 3 \text{ h}$$

$$= -225 \text{ km}$$

$$d = 300 \text{ km} + 0 + -225 \text{ km} = 75 \text{ km}$$





$$d_1 = vt = 25 \frac{\text{m}}{\text{s}} \times 10 \times 60 \frac{\text{s}}{\text{min}} = 15000 \text{ m} = 1200 \text{ s}$$

$$d_2 = 1.5 \frac{\text{m}}{\text{s}} \times (20 \text{ min} \times \frac{60 \text{ s}}{\text{min}}) = 1800 \text{ m}$$

$$d_3 = 0$$

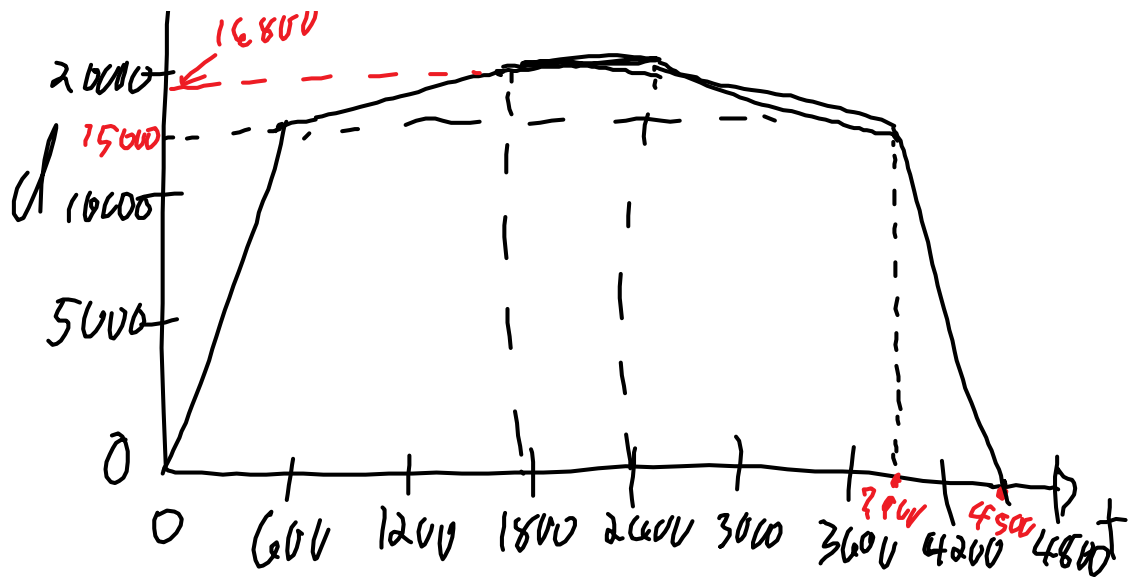
$$d_4 = v = -1.2 \frac{\text{m}}{\text{s}}, d = -1600 \text{ m}$$

$$\frac{d}{v} = \frac{-1600 \text{ m}}{-1.2 \frac{\text{m}}{\text{s}}} = 1333 \text{ s}$$

$$t_5 = \frac{d}{v} = \frac{-15000 \text{ m}}{-25} = 600 \text{ s}$$

$$600 \text{ s} + 1200 \text{ s} + 1333 \text{ s} + 600 \text{ s} + 600 \text{ s} = 4500 \text{ s}$$





p 37 problems

1,2,3,5,8,9,12,16,18,19,22

p58 Applying Concepts 6-11

p60 Q14,15,24

Q9 a)  $6.2 \times 4.7 = 29.14 \times 10^8 = 2.9 \times 10^9 \text{ m}^2$

$10^{18} \times 10^{-10} = 10^{18-10} = 10^8$

b)  $5.6/2.8 = 2 = 2.0 \times 10^5 \text{ m/s}$

c) if you have Exp button (or EE or E or  $\times 10^x$ )

$8.1 \text{ Exp } -4 \times 1.6 \text{ Exp } -3$

Block 1-2

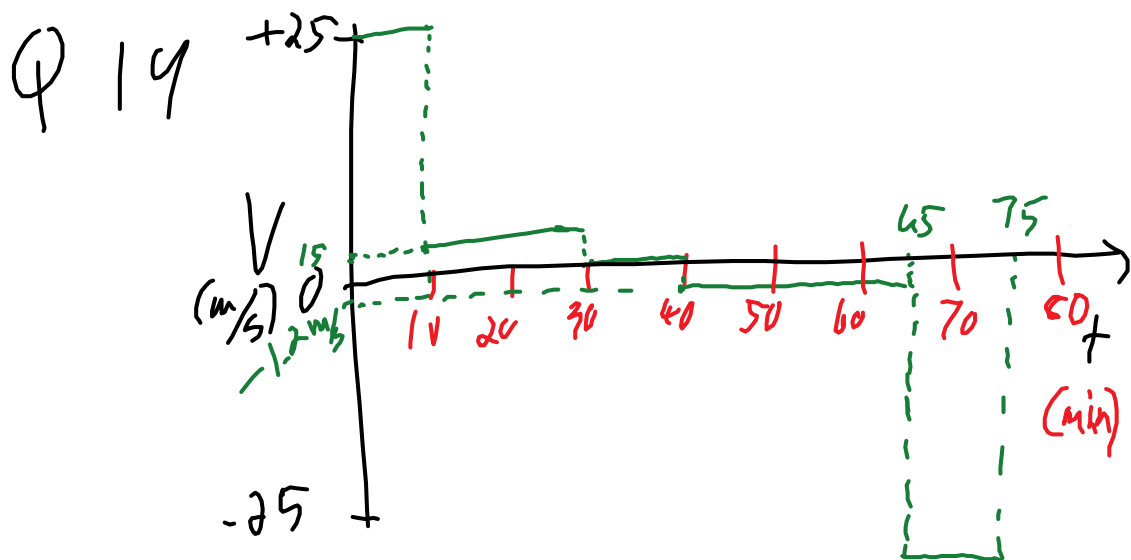
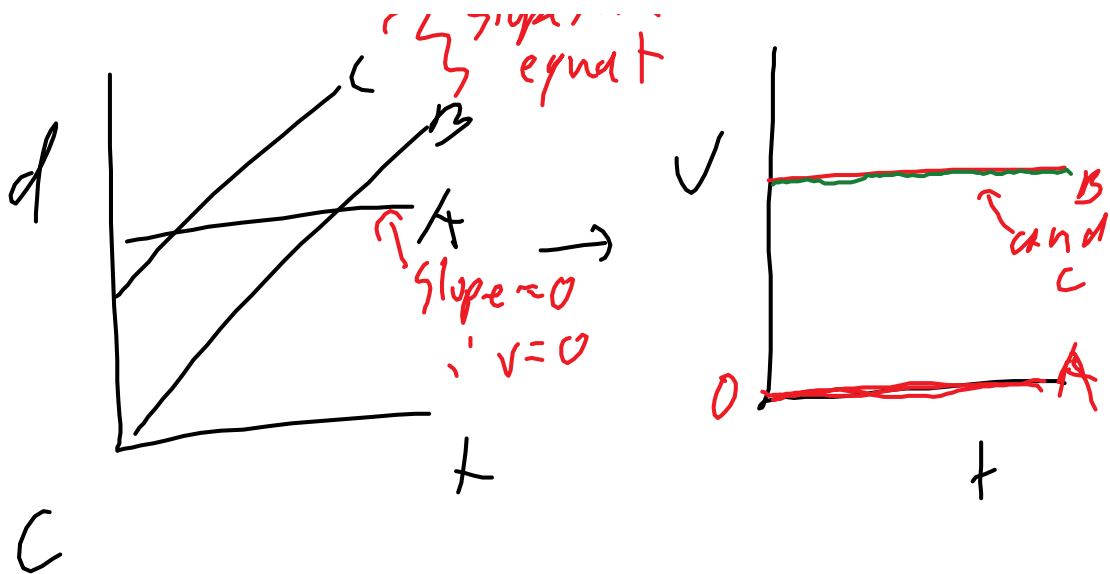
Homework

p55

q 14 - answer at back is for the v-t graph, not d-t graph - change graph a to v-t in pencil

q17

*slashes are equal*



drive  $V_1 = 25 \text{ m/s}$  for  $t_1 = 10 \text{ minutes}$

$$d_1 = V \times t = 25 \text{ m/s} \times 10 \text{ min} \times \frac{60 \text{ s}}{\text{min}}$$

$$= 15000 \text{ m}$$

walk  $V_2 = 1.5 \text{ m/s}$   $t_2 = 20 \text{ minutes}$

$$= 1200 \text{ s}$$

$$d_2 = vt = 1.5 \text{ m/s} \times 1200 \text{ s} = 1800 \text{ m}$$

$$d_3 = 0 \quad t_3 = 10 \text{ min}$$

$$d_4 = -1800 \text{ m} \quad t_4 = \frac{d}{v} = \frac{-1800 \text{ m}}{-1.2 \text{ m/s}}$$



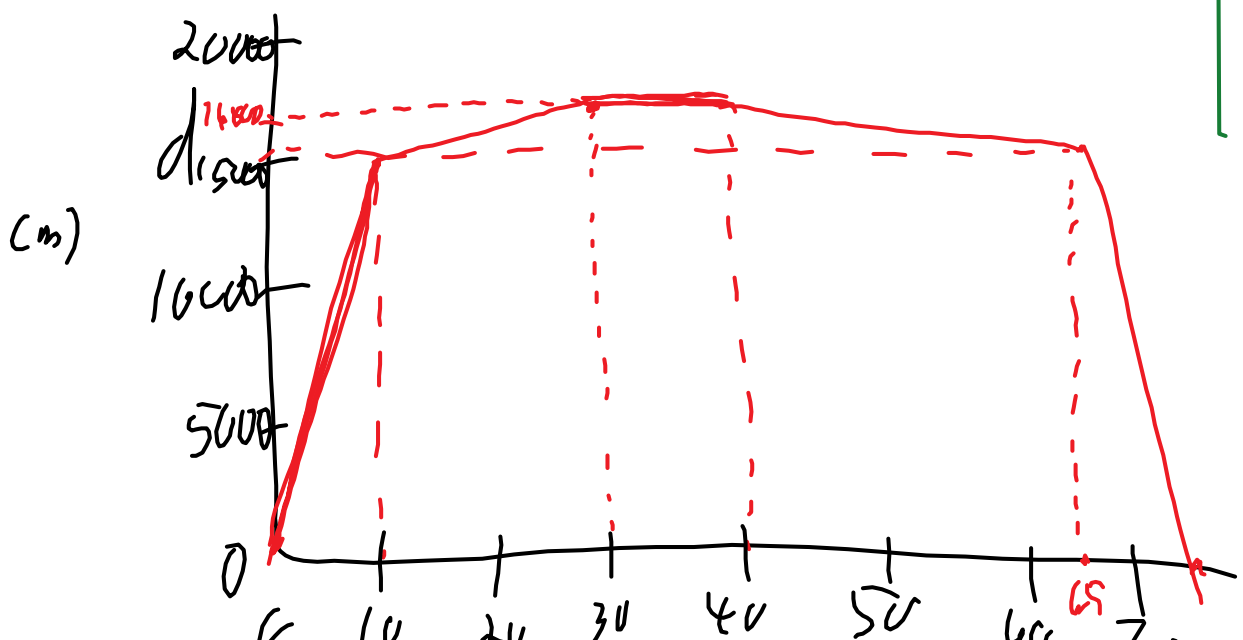
$$\frac{d}{v} = \frac{d}{v} \rightarrow$$

$$t_4 = 1500 \text{ s} \\ = 25 \text{ minutes}$$

$$d_5 = -15000 \text{ m} \quad v = -25 \text{ m/s} \quad t = 10 \text{ minutes} \\ = 600 \text{ s}$$

$$t_{\text{total}} = 10 \text{ min} + 10 \text{ min} + 10 \text{ min} + 25 \text{ min} + 10 \text{ min} \\ = 75 \text{ minutes}$$

$$d_{\text{max}} = 15000 + 1800 \\ = 16800 \text{ m}$$



✓ 10 20 30 40 50 60 <sup>70</sup> 70

p 37 problems

1,2,3,5,8,9,12,16,18,19,22

p58 Applying Concepts 6-11

p60 Q14,15,24

unit conversion table is on p17

p37 Q2 p17 table

$$a) 42.3 \text{ cm} \left( \frac{1 \text{ m}}{100 \text{ cm}} \right) = 0.423 \text{ m}$$

$$b) 6.2 \text{ pm} \left( \frac{10^{-12} \text{ m}}{1 \text{ pm}} \right) = 6.2 \times 10^{-12} \text{ m}$$

$$214 \text{ nm} \left( \frac{10^{-9} \text{ m}}{1 \text{ nm}} \right) = 2.14 \times 10^{-7} \text{ m}$$

Q9 a)  $6.2 \times 4.7 = 29.14 \times 10^{18-10} = 2.9 \times 10^9 \text{ m}^2$

8a)

$$\begin{array}{r} 16.2 \text{ m} \\ 5.008 \text{ m} \\ 13.48 \text{ m} \\ \hline 34.688 \text{ m} = \boxed{34.7 \text{ m}} \end{array}$$

(d)

d

r

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